

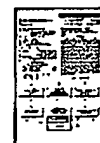
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Title: FR2624870A1: COMPOSITION ADHESIVE ACRYLIQUE PRESENTANT APRES DURCISSEMENT UNE RESISTANCE AMELIOREE AU CISAILLEMENT ET SON APPLICATION A LA LIAISON D'ELEMENTS ET NOTAMMENT D'ELEMENTS STRUCTURAUX

Derwent Title: Acrylic adhesive compsn. with improved shear strength after hardening - contains crosslinked polyurethane network formed in situ in acrylic monomer phase, used esp. for bonding structural elements [[Derwent Record](#)]

Country: FR France**Kind:** A1 Application, First Publication ¹ (See also: [FR2624870B1](#))**Inventor:** DINH NGUYEN TRUONG;

Assignee: ELF AQUITAINE STE NALE France
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[High Resolution](#)**Published / Filed:** 1989-06-23 / 1987-12-22**Application Number:** FR1987008717905

IPC Code: [C08L 33/06](#); [C08L 33/18](#); [C08G 18/28](#); [C09J 3/14](#); [F16B 11/00](#); [C08L 33/06](#); [C08L 75/04](#); [C08L 33/18](#); [C08L 75/04](#);

ECLA Code: None**Priority Number:** 1987-12-22 FR1987008717905

| INPADOC Legal Status: | Gazette date | Code | Description (remarks) | List all possible codes for FR |
|------------------------------|---------------------|-------------|------------------------------|---------------------------------------|
| | 1994-10-28 | ST - | Lapsed | |

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Designated Country: AT BE CH DE ES FR GB GR IT LI LU NL SE DK FI JP NO US

Family:

| PDF | Publication | Pub. Date | Filed | Title |
|-------------------------------------|------------------------------|------------|------------|---|
| | WO8805796A1 | 1988-08-11 | 1988-01-29 | ACRYLIC ADHESIVE COMPOSITION HAVING AFTER HARDENING AN IMPROVED SHEAR RESISTANCE AND APPLICATION TO THE BONDING OF ELEMENTS, PARTICULARLY STRUCTURAL ELEMENTS |
| <input checked="" type="checkbox"/> | NO0884334A0 | 1988-09-29 | 1988-09-29 | KLEBEMIDDEL. |
| <input checked="" type="checkbox"/> | NO0884334A | 1988-11-30 | 1988-09-29 | KLEBEMIDDEL. |
| | JP01502035T2 | 1989-07-13 | | |

| | | | | |
|-------------------------------------|-----------------------------|------------|------------|--|
| <input checked="" type="checkbox"/> | FR2624870B1 | 1992-01-03 | 1987-12-22 | COMPOSITION ADHESIVE ACRYLIQUE PRESENTANT APRES DURCISSEMENT UNE RESISTANCE AMELIOREE AU CISAILLEMENT ET SON APPLICATION A LA LIAISON D'ELEMENTS ET NOTAMMENT D'ELEMENTS STRUCTURAUX |
| <input checked="" type="checkbox"/> | FR2624870A1 | 1989-06-23 | 1987-12-22 | COMPOSITION ADHESIVE ACRYLIQUE PRESENTANT APRES DURCISSEMENT UNE RESISTANCE AMELIOREE AU CISAILLEMENT ET SON APPLICATION A LA LIAISON D'ELEMENTS ET NOTAMMENT D'ELEMENTS STRUCTURAUX |
| <input checked="" type="checkbox"/> | FI0884484A0 | 1988-09-29 | 1988-09-29 | AKRYLLIMKOMPOSITION MED FOERBAETTRAD BRYTHAOLLFASTHET EFTER HAERDNING OCH DESS ANVAENDNING VID HOPFOGNING AV ELEMENT OCH SPECIELLT BYGGELEMENT. |
| <input checked="" type="checkbox"/> | FI0884484A | 1988-09-29 | 1988-09-29 | AKRYLLIMKOMPOSITION MED FOERBAETTRAD BRYTHAOLLFASTHET EFTER HAERDNING OCH DESS ANVAENDNING VID HOPFOGNING AV ELEMENT OCH SPECIELLT BYGGELEMENT. |
| <input checked="" type="checkbox"/> | EP0279725A1 | 1988-08-24 | 1988-01-29 | Acrylic adhesive composition having an improved shear strength after curing and its use in joining elements, particularly structural elements, together |
| <input checked="" type="checkbox"/> | DK0544488A0 | 1988-09-29 | 1988-09-29 | ACRYLBASEREDE ADHAESIONSPRAEPARATER MED FORBEDRET MODSTANDSDYGTIGHED OVER FOR FORSKYDNINGSKRAEFTER I HAERDET TILSTAND OG ANVENDELSE DERAFTIL LIMNING AF, ISAER STRUKTURELLE, ELEMENTER |
| <input checked="" type="checkbox"/> | DK0544488A | 1988-09-29 | 1988-09-29 | ACRYLBASEREDE ADHAESIONSPRAEPARATER MED FORBEDRET MODSTANDSDYGTIGHED OVER FOR FORSKYDNINGSKRAEFTER I HAERDET TILSTAND OG ANVENDELSE DERAFTIL LIMNING AF, ISAER STRUKTURELLE, ELEMENTER |
| 11 family members shown above | | | | |

Other Abstract
Info:

CHEMABS 110(12)096738K DERABS C88-235154



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Derwent Title: **Acrylic! adhesive compsn. with improved shear strength after hardening - contains crosslinked polyurethane network formed in situ in acrylic monomer phase, used esp. for bonding structural elements**

Original Title:  **WO8805796A1: ACRYLIC ADHESIVE COMPOSITION HAVING AFTER HARDENING AN IMPROVED SHEAR RESISTANCE AND APPLICATION TO THE BONDING OF ELEMENTS, PARTICULARLY STRUCTURAL ELEMENTS**

Assignee: **TRUONG D N** Individual
SOC NAT ELF AQUITAINE Standard company
 Other publications from [SOC NAT ELF AQUITAINE \(ERAP\)...](#)

Inventor: **TRUONG D;**

Accession/Update: **1988-235154 / 198833**



IPC Code: **C08G 18/63 ; C08L 33/06 ; C08L 75/04 ; C09J 3/14 ; F16B 11/00 ;**

Derwent Classes: **A81; G03; Q61; A14;**

Manual Codes: **A02-A03**(Free radical, general and others) , **A04-B09**(Esters containing 2 non-conjugated C-C double bonds) , **A04-F06B**(Compositions) , **A05-G01B** (Compositions) , **A07-A04E**(Polyamide, polyurethane and/or polyether) , **G03-B02D1**(Acrylic polymers) , **G03-B02E4**(Polyurethanes; polyureas; other isocyanate resin-based adhesives)

Derwent Abstract: **(WO8805796A)** Compsn. (I) comprises (A) acrylic monomer phase contg. at least one mono-acrylic monomer and up to 10% on wt. (A), at least one ester contg. more than one acrylic gp., and, intimately mixed with (A), (B) generator of free radicals, (C) crosslinked polyurethane network formed in situ in (A) from precursor system (II) in soln. in (A), where a) (II) comprises 3-60 wt.% (A), b) (II) is formed from at least one polyfunctional organic isocyanate (III) and at least one polyol (IV), each sol. in (A), at least one (III) having 3 or more NCO functions and/or (at least) one (IV) having 3 or more OH functions so as to form (C) without phase sep'n.
 Pref. (II) comprises 5-25 wt.% (A). (IV) has no average mol.wt. 60-200,000. (III) has at least 2 NCO gps. per mol., wt. below 5000, and are aliphatic, acyclic, cyclic or aromatic.
USE/Advantage - Bonding elements, partic. structural (claimed), partic. metals, plastics, composites, wood, glass, ceramics, esp. opt. degreased metal sheets. Hardened (I) has improved resistance to shock and shearing.

[Dwg.0/0](#)

| Family: | PDF Patent | Pub. Date | Derwent Update | Pages | Language | IPC Code |
|---|------------|------------|----------------|-------|----------|------------|
|  WO8805796A * | | 1988-08-11 | 198833 | 38 | French | C08G 18/63 |
| Des. States: (N) DK FI JP NO US | | | | | | |
| Local appls.: WO1988FR0000050 Filed:1988-01-29 (88WO-FR000050) | | | | | | |
| JP01502035W = 1989-07-13 198934 English F16B 35/00 | | | | | | |
| Local appls.: JP1988000501478 Filed:1988-01-29 (88JP-0501478) | | | | | | |
|  FR2624870A = | | 1989-06-23 | 198932 | | French | C08G 18/28 |

Local appls.: FR1987000017905 Filed:1987-12-22 (87FR-0017905)

NO8804334A = 1989-01-16 198909 NO_NO

Local appls.:

FI8804484A = 1988-09-29 198927 FI_FI

Local appls.:

DK8805444A = 1988-09-29 198906 DA_DK

Local appls.:

EP0279725A = 1988-08-24 198834 French C08G 18/63

Des. States: (R) AT BE CH DE ES FR GB GR IT LI LU NL SE

Local appls.: EP1988000400200 Filed:1988-01-29 (88EP-0400200)

INPADOC
Legal Status:

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First Claim:

[Show all claims](#) 1.- Composition adhésive acrylique présentant après durcissement une résistance améliorée au choc et au cisaillement, du type comportant une phase acrylique monomère renfermant un ou plusieurs monomères monoacryliques et jusqu'à 10 en poids de ladite phase, d'un ou plusieurs esters pluriacryliques et, en mélange intime avec la phase monomère, un générateur de radicaux libres ainsi qu'un adjuvant d'amélioration de la résistance au choc de la composition adhésive durcie, et se caractérisant en ce que ledit adjuvant consiste en un réseau polyuréthane réticulé formé in situ au sein de la phase acrylique monomère à partir d'un système précurseur de polyuréthane mis en solution dans ladite phase monomère, ledit système précurseur étant utilisé à raison de 3 à 60 % du poids de la phase acrylique monomère et étant formé d'un ou plusieurs isocyanates organiques polyfonctionnels et d'un ou plusieurs polyols, qui sont solubles les uns dans l'autre dans la phase acrylique monomère et sont choisis de telle sorte que ce système précurseur renferme au moins un isocyanate possédant au moins trois fonctions isocyanates ou/et un polyol ayant au moins trois fonctions hydroxyles pour conduire au polyuréthane réticulé sans séparation de phases. Composition adhésive selon la revendication 1, caractérisée en ce que le système précurseur de polyuréthane est utilisé en quantité représentant 5 à 25 % du poids de la phase acrylique monomère. 3 - Composition adhésive selon la revendication 1 ou 2, caractérisée en ce que les polyols entrant dans la composition du système précurseur de polyuréthane ont des masses moléculaires moyennes en nombre comprises entre 60 et 200 4 - Composition adhésive selon l'une des revendications 1 à 3

[French] †

Priority Number:

| Application Number | Filed | Original Title |
|--------------------|------------|----------------|
| FR1987000017905 | 1987-12-22 | |
| FR1987000001135 | 1987-01-30 | |

Unlinked
Registry Numbers:

0415U 0474U 1041U 1694U

Polymer
Multipunch Codes:

[Show polymer multipunch codes](#)

Citations:

| PDF | Patent | Original Title |
|-------------------------------------|------------|---|
| <input checked="" type="checkbox"/> | DE3033359 | VERFAHREN ZUR HERSTELLUNG EINES KLEBSTOFFFILMS. |
| <input checked="" type="checkbox"/> | EP0154819 | METHOD OF ADHESION AND COMPOSITION THEREFOR |
| | FR01111524 | |
| | FR01572362 | |
| | FR02029469 | |

| | | |
|-------------------------------------|------------|--|
| | FR02029560 | |
| <input checked="" type="checkbox"/> | FR2349609 | NOUVELLES COMPOSITIONS DE POLYMERES RENFERMANT DES RADICAUX ISOCYANATES ET PROCEDE DE LEUR PREPARATION |
| | | Msg: No-citns. |

Related
Accessions:

| Accession Number | Type | Derwent Update | Derwent Title |
|------------------|------|----------------|---------------|
| C1988-105203 | C | | |
| 1 item found | | | |

Title Terms: POLYACRYLIC ADHESIVE COMPOSITION IMPROVE SHEAR STRENGTH AFTER HARDEN
CONTAIN CROSSLINK POLYURETHANE NETWORK FORMING SITU ACRYLIC MONOMER
PHASE BOND STRUCTURE ELEMENT

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